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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-07-17-08** **Date: 20-07-17**
Customer	:	Assistsnt Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction Of Government School Building in Kodigehalli, Ward No.08
Agency	:	Sri.Gopi reddy, No.03, 1st Cross, 1st Main, Ramachandrappa layout, Arebic college post, Erannapalya, Bangalore-560 045.
Customer's Reference	:	BBMP/EE/BTP/WO/92/2017-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	17-07-17
Sample ID No	:	2017-07-17-08 /02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	17-07-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	292	292	1.9	98.1	90-100
3	20 mm	7498	7790	51.9	48.1	30-70
4	10 mm	5455	13245	88.3	11.7	10-35
5	4.75 mm	1218	14463	96.4	3.6	0-5
6	Pan	537	15000	100.0	0	---

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Bangalore.

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-07-17-08** **Date: 20-07-17**

Sample ID No : 2017-07-17-08 /02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	8.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	9.3	
3	Specific Gravity	2.61	_
4	Bulk Density(Loose) (Kg/l)	1.43	_
5	Bulk Density(Compacted) (Kg/l)	1.48	_
6	Water Absorption(%)	0.18	_

Note:
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Authorized Signatory
Quality Manager

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P
Bangalore.

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-07-17-08** **Date: 20-07-17**
Customer	:	Assistsnt Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction Of Government School Building in Kodigehalli, Ward No.08
Agency	:	Sri.Gopi reddy, No.03, 1st Cross, 1st Main, Ramachandrappa layout, Arebic college post, Erannapalya, Bangalore-560 045.
Customer Reference	:	BBMP/EE/BTP/WO/92/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-07-17
Sample ID No	:	2017-07-17-08 /02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	17-07-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	285	285	5.7	94.3	90-100
3	10 mm	3015	3300	66.0	34.0	25-55
4	4.75 mm	1588	4888	97.8	2.2	0-10
5	Pan	112	5000	100	0	–

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Kodigehalli Sub Division,
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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-07-17-08** **Date: 20-07-17**

Sample ID No : 2017-07-17-08 /02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	**10.1**	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	**9.5**	
3	Specific Gravity	**2.63**	–
4	Bulk Density(Loose) (Kg/l)	**1.45**	–
5	Bulk Density(Compacted) (Kg/l)	**1.51**	–
6	Water Absorption(%)	**0.21**	–
7	Aggregate crushing Value(%)	**23.8**	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	**23.1**	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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Bangalore.

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R KARTHIK RECHAN
Authorized Signature
Quality Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2017-07-17-08** **Date: 20-07-17**

Customer : Assistsnt Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Construction Of Government School Building in Kodigehalli, Ward No.08

Agency : Sri.Gopi reddy, No.03, 1st Cross, 1st Main, Ramachandrappa layout, Arebic college post, Erannapalya, Bangalore-560 045.

Customer's Reference : BBMP/EE/BTP/WO/92/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-07-17

Sample ID No : 2017-07-17-08 /03

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 17-07-17

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	31	31	3.1	96.9	90-100	90-100	90-100	95-100
3	2.36 mm	182	213	21.3	78.7	60-95	75-100	85-100	95-100
4	1.18 mm	158	371	37.1	62.9	30-70	55-90	75-100	90-100
5	600 micron	201	572	57.2	42.8	15-34	35-59	60-79	80-100
6	300 micron	211	783	78.3	21.7	5-20	8-30	12-40	15-50
7	150 micron	148	931	93.1	6.9	0-10	0-10	0-10	0-15
8	Pan	69	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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Yelahanka Zone, B.B.M.P.,
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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2017-07-17-08** **Date: 20-07-17**

Sample ID No : 2017-07-17-08 /03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.19	–
2	Specific Gravity	2.54	–
3	Material finer than 75 micron(%)	5.8	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	**CP-2017-08-16-09** **Date: 19-08-17**
Customer	:	Assistsnt Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction Of Government School Building in Kodigehalli, Ward No.08
Agency	:	Sri.Gopi reddy, No.03, 1st Cross, 1st Main, Ramachandrappa layout, Arebic college post, Erannapalya, Bangalore-560 045.
Customer's Reference	:	BBMP/EE/BTP/WO/92/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-08-17
Sample ID No	:	2017-08-16-09 /01
Sample Type/Size	:	Solid concrete blocks of size (400X150X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	16-08-17

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185 (Part 1):2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	402	151	202	12262	24.540	2001.3	1991.0	Not less than 1800Kg/m^3
2	401	152	201	12251	24.230	1977.7		
3	402	151	202	12262	24.450	1994.0		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185 (Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	25.650	24.350	5.34	4.78	Shall not be more than 10% by mass
2	25.490	24.420	4.38		
3	25.540	24.410	4.63		

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Lab ID : **CP-2017-08-16-09** **Date: 19-08-17**

Sample ID No : **2017-08-16-09**

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	402	151	202	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	401	152	201	
3	402	152	202	
4	401	153	203	
5	402	150	201	
6	403	151	203	
7	404	153	201	
8	400	152	203	
9	400	152	201	
10	402	149	203	
11	403	150	201	
12	401	150	203	
13	402	151	200	
14	401	152	198	
15	400	149	201	
16	402	150	200	
17	400	150	202	
18	403	151	202	
19	402	152	200	
20	401	150	201	
Average of 20	**402**	**151**	**201**	

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
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Lab ID : **CP-2017-08-16-09** **Date: 19-08-17**

Sample ID No : 2017-08-16-09

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	402	151	60702	289.1	4.8	4.2
2	401	152	60952	245.1	4.0	
3	402	152	61104	276.5	4.5	
4	401	153	61353	244.7	4.0	
5	402	150	60300	252.7	4.2	
6	403	151	60853	261.3	4.3	
7	404	153	61812	248.6	4.0	
8	400	152	60800	249.1	4.1	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	Minimum average	Minimum Individual units.
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

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Authorized Signatory
Quality Manager

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TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	**CP-2017-08-16-09** **Date: 19-08-17**
Customer	:	Assistsnt Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction Of Government School Building in Kodigehalli, Ward No.08
Agency	:	Sri.Gopi reddy, No.03, 1st Cross, 1st Main, Ramachandrappa layout, Arebic college post, Erannapalya, Bangalore-560 045.
Customer's Reference	:	BBMP/EE/BTP/WO/92/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-08-17
Sample ID No	:	2017-08-16-09 /02
Sample Type/Size	:	Solid concrete blocks of size (400X100X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	16-08-17

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185 (Part 1):2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	400	101	202	8161	16.120	1975.3	1963.9	Not less than 1800Kg/m^3
2	401	102	201	8221	15.980	1943.7		
3	401	100	201	8060	15.900	1972.7		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185 (Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	17.150	16.350	4.89	4.91	Shall not be more than 10% by mass
2	17.250	16.430	4.99		
3	17.080	16.290	4.85		

Assistant Executive Engineer, Kodigehalli Sub Division, Yelahanka Zone, B.B.M.P., Bangalore.

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Lab ID : **CP-2017-08-16-09** **Date: 19-08-17**

Sample ID No : **2017-08-16-09**

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	403	101	200	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	402	100	201	
3	403	102	203	
4	401	103	201	
5	400	100	203	
6	402	102	201	
7	402	103	203	
8	401	100	201	
9	403	102	202	
10	400	103	201	
11	401	102	202	
12	402	103	203	
13	403	100	201	
14	401	102	203	
15	402	101	201	
16	403	101	202	
17	402	102	201	
18	401	103	203	
19	404	100	201	
20	400	102	203	
Average of 20	**402**	**102**	**202**	

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

Lab ID : **CP-2017-08-16-09** **Date: 19-08-17**

Sample ID No : 2017-08-16-09

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	403	101	40703	192.5	4.7	4.5
2	402	100	40200	186.4	4.6	
3	403	102	41106	193.4	4.7	
4	401	103	41303	185.4	4.5	
5	400	100	40000	176.8	4.4	
6	402	102	41004	192.1	4.7	
7	402	103	41406	162.7	3.9	
8	401	100	40100	175.1	4.4	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	Minimum average	Minimum Individual units.
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

Note:
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Authorized Signatory
Quality Manager

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-07-17-08** **Date: 19-07-17**
Customer	:	Assistsnt Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction Of Government School Building in Kodigehalli, Ward No.08
Agency	:	Sri.Gopi reddy, No.03, 1st Cross, 1st Main, Ramachandrappa layout, Arebic college post, Erannapalya, Bangalore-560 045.
Customer's Reference	:	BBMP/EE/BTP/WO/92/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-07-17
Sample ID No	:	2017-07-17-08 /04
Sample Type	:	Kamadhenu
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	18-07-17

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Kamadhenu	Fe500	8	0.392	548	658	20.0%	Satisfactory	Satisfactory
2	Kamadhenu	Fe500	10	0.615	462	673	20.0%	Satisfactory	Satisfactory
3	Kamadhenu	Fe500	12	0.887	578	892	20.0%	Satisfactory	Satisfactory
4	Kamadhenu	Fe500	16	1.582	588	702	19.5%	Satisfactory	Satisfactory
5	Kamadhenu	Fe500	20	2.473	592	710	19.0%	Satisfactory	Satisfactory

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Yelahanka Zone, Bangalore.

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Page 1/1
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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-07-17-08** **Date: 20-07-17**
Customer	:	Assistsnt Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction Of Government School Building in Kodigehalli, Ward No.08
Agency	:	Sri.Gopi reddy, No.03, 1st Cross, 1st Main, Ramachandrappa layout, Arebic college post, Erannapalya, Bangalore-560 045.
Customer's Reference	:	BBMP/EE/BTP/WO/92/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-07-17
Sample ID No	:	2017-07-17-08 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	18-07-17
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.15	–
2	Finess by Air permeablity method (m^2/kg,Min)	282.65	225m^2/kg, Min
3	Density (gm/cc)	3.12	–
4	Standard Consistency (%)	29.0%	Not specified
5	Initial Setting time	145 minutes	Not less than 30 minutes
6	Final Setting time	270 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:

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All information furnished by Customer/Representative

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Assistant Executive Engineer, Kodigehalli Sub Division, Yelahanka Zone, B.B.M.P, Bangalore.

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Quality Manager

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-07-17-08** **Date: 15-08-17**
Customer	:	Assistsnt Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction Of Government School Building in Kodigehalli, Ward No.08
Agency	:	Sri.Gopi reddy, No.03, 1st Cross, 1st Main, Ramachandrappa layout, Arebic college post, Erannapalya, Bangalore-560 045.
Customer's Reference	:	BBMP/EE/BTP/WO/92/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-07-17
Sample ID No	:	2017-07-17-08 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	18-07-17
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	55.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-07-26-06** **Date: 31/07/2017**

Customer : Assistsnt Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Construction Of Government School Building in Kodigehalli, Ward No.08

Agency : Sri.Gopi reddy, No.03, 1st Cross, 1st Main, Ramachandrappa layout, Arebic college post, Erannapalya, Bangalore-560 045.

Customer's Reference : BBMP/EE/BTP/WO/92/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-07-17

Sample ID No : 2017-07-26-06 /01

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 31/07/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	24/07/2017	31/07/2017	150.11 X 149.48 X 151.35	22438	8.175	271.5	12.1	12.4
2	PCC	M15	24/07/2017	31/07/2017	150.44 X 149.87 X 150.34	22546	8.163	290.8	12.9	
3	PCC	M15	24/07/2017	31/07/2017	150.66 X 150.49 X 149.54	22673	8.155	278.9	12.3	

Note:

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Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-07-26-06** **Date: 21/08/2017**

Customer : Assistsnt Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Construction Of Government School Building in Kodigehalli, Ward No.08

Agency : Sri.Gopi reddy, No.03, 1st Cross, 1st Main, Ramachandrappa layout, Arebic college post, Erannapalya, Bangalore-560 045.

Customer's Reference : BBMP/EE/BTP/WO/92/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-07-17

Sample ID No : 2017-07-26-06 /02

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 21/08/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	24/07/2017	21/08/2017	149.86 X 151.47 X 150.33	22699	8.175	392.7	17.3	17.3
2	PCC	M15	24/07/2017	21/08/2017	150.49 X 150.33 X 149.87	22623	8.162	386.9	17.1	
3	PCC	M15	24/07/2017	21/08/2017	150.28 X 150.77 X 150.98	22658	8.179	398.8	17.6	

Note:

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Kodigehalli Sub Divn
Yelahanka
Bangalore

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Authorized Signatory
Quality Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-08-23-03** **Date: 28/08/2017**

Customer : Assistsnt Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Construction Of Government School Building in Kodigehalli, Ward No.08

Agency : Sri.Gopi reddy, No.03, 1st Cross, 1st Main, Ramachandrappa layout, Arebic college post, Erannapalya, Bangalore-560 045.

Customer's Reference : BBMP/EE/BTP/WO/92/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 23-08-17

Sample ID No : 2017-08-23-03 /01

Customer ID : Footing & Column Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 27/08/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Footing & Column Concrete	M20	20/08/2017	27/08/2017	149.61 X 150.49 X 150.79	22515	8.215	389.5	17.3	17.3
2	Footing & Column Concrete	M20	20/08/2017	27/08/2017	150.34 X 150.79 X 150.66	22670	8.204	394.5	17.4	
3	Footing & Column Concrete	M20	20/08/2017	27/08/2017	149.55 X 149.87 X 150.19	22413	8.196	383.3	17.1	

Note:

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Kodigehalli Sub Division
Yelahanka Zone, B.B.M.P.
Bangalore.

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2017-08-23-03** **Date: 18/09/2017**
Customer	:	Assistsnt Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction Of Government School Building in Kodigehalli, Ward No.08
Agency	:	Sri.Gopi reddy, No.03, 1st Cross, 1st Main, Ramachandrappa layout, Arebic college post, Erannapalya, Bangalore-560 045.
Customer's Reference	:	BBMP/EE/BTP/WO/92/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-08-17
Sample ID No	:	2017-08-23-03 /02
Customer ID	:	Footing & Column Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	17/09/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Footing & Column Concrete	M20	20/08/2017	17/09/2017	149.85 X 150.18 X 150.45	22504	8.214	519.9	23.1	23.4
2	Footing & Column Concrete	M20	20/08/2017	17/09/2017	149.87 X 150.33 X 151.98	22530	8.168	527.2	23.4	
3	Footing & Column Concrete	M20	20/08/2017	17/09/2017	150.97 X 150.58 X 149.68	22733	8.172	538.8	23.7	

Note:

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Assistant Executive Engineer
Kodigehalli Sub Division
Yelahanka Zone, BBMP

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Authorized Signatory
Quality Manager

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****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-11-27-12** **Date: 02/12/2017**

Customer : Assistsnt Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Construction Of Government School Building in Kodigehalli, Ward No.08

Agency : Sri.Gopi reddy, No.03, 1st Cross, 1st Main, Ramachandrappa layout, Arebic college post, Erannapalya, Bangalore-560 045.

Customer's Reference : BBMP/EE/BTP/WO/92/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 27-11-17

Sample ID No : 2017-11-27-12 /01

Customer ID : Roof Beam & Roof Slab

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 01/12/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Roof Beam & Roof Slab	M20	24/11/2017	01/12/2017	149.87 X 149.62 X 151.73	22424	8.145	387.9	17.3	17.4
2	Roof Beam & Roof Slab	M20	24/11/2017	01/12/2017	150.44 X 150.79 X 150.23	22685	8.205	406.1	17.9	
3	Roof Beam & Roof Slab	M20	24/11/2017	01/12/2017	150.49 X 151.32 X 151.49	22772	8.198	389.4	17.1	

Note:

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As We Executive Engineer
Assistant Executive Engineer
Kodigehalli Sub Division
Yelahanka Zone, B.B.M.P.
Bangalore.

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro Sig..... Date..... BANGALORE

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-11-27-12** **Date: 23/12/2017**

Customer : Assistsnt Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Construction Of Government School Building in Kodigehalli, Ward No.08

Agency : Sri.Gopi reddy, No.03, 1st Cross, 1st Main, Ramachandrappa layout, Arebic college post, Erannapalya, Bangalore-560 045.

Customer's Reference : BBMP/EE/BTP/WO/92/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 27-11-17

Sample ID No : 2017-11-27-12 /02

Customer ID : Roof Beam & Roof Slab

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 22/12/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Roof Beam & Roof Slab	M20	24/11/2017	22/12/2017	149.68 X 151.24 X 150.77	22638	8.249	534.2	23.6	23.5
2	Roof Beam & Roof Slab	M20	24/11/2017	22/12/2017	150.97 X 150.78 X 150.46	22763	8.172	519.0	22.8	
3	Roof Beam & Roof Slab	M20	24/11/2017	22/12/2017	150.76 X 150.74 X 150.67	22726	8.215	547.7	24.1	

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Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
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